RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/043,572_

Source: _1FW16_

Date Processed by STIC: _9/27/04_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , **EFS Submission User Manual - ePAVE)**
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04): U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

[handwritten:] delete *[handwritten: I'm showing this for clarification only]* 10/043,572

~~U.S. Serial No. 10/043 572~~

[handwritten: do not show serial number in right-hand corner]

[handwritten: do NOT use TAB codes]

SEQUENCE LISTING

[handwritten: move over to left]

[stamp: Does Not Comply Corrected Diskette Needed]

(1) GENERAL INFORMATION:

[handwritten left margin: colons before directly following headings]

(i)   APPLICANT: *[handwritten: move over]*   Neil MILES

(ii) TITLE OF INVENTION: PEACH TREE 'V75074'

(iii) NUMBER OF SEQUENCES: ⑦ *[handwritten: ? 14 shown in submitted file (see p.3)]*

(iv) CORRESPONDENCE ADDRESS:
      (A) ADDRESSEE: FLYNN, THIEL, BOUTELL & TANIS, P.C.
      (B) STREET: 2026 Rambling Road
      (C) CITY: Kalamazoo
      (D) STATE: Michigan
      (E) COUNTRY: USA
      (F) ZIP;   49008-1631

(v)   COMPUTER READABLE FORM:
      (A) MEDIUM TYPE: Diskette, 3.5 inches, 1.44 Mb storage
      (B) COMPUTER: Gateway
      (C) OPERATING SYSTEM: Microsoft Windows 98
      (D) SOFTWARE: Word 2000

(vi) CURRENT APPLICATION DATA:
      (A) APPLICATION NUMBER: 10/043 572
      (B) FILING DATE: January 10, 2002   *[handwritten: 10-JAN-2002 use this format]*
      (C) CLASSIFICATION: ~~Plant~~   *[handwritten: classification number]*

[handwritten left margin: delete if no responses]

(vii) PRIOR APPLICATION DATA   :
      (A) APPLICATION NUMBER   :
      (B) FILING DATE   :

(viii) ATTORNEY/AGENT INFORMATION:
      (A) NAME: Sidney B. Williams, Jr.
      (B) REGISTRATION NUMBER: 24 949
      (C) REFERENCE/DOCKET NUMBER: IPPM Case 7

(ix) TELECOMMUNICATION INFORMATION :
      (A) TELEPHONE :   (269) 381-1156
      (B) TELEFAX :   (269) 381-5465

[handwritten: do NOT use hard page breaks in the computer readable form]

    U.S. Serial No. 10/043 572

(handwritten top right) 10/043,572

(handwritten) clarification only

(handwritten, with arrow) do not show page no.

SEQ ID NO:1:

(2) INFORMATION FOR ~~GPPGT030-A~~   : ~~Sequence ID No. 1~~

~~Sequence 5' to 3'~~   : (TGAATATTGTTCCTCAATTC) *(circled, handwritten:)* Invalid format

(handwritten, right side:) Move this under (xi) SEQUENCE DESCRIPTION: heading

  (i)   SEQUENCE CHARACTERISTICS: —
      (A)   LENGTH: 20   ~~20~~
      (B)   TYPE: *(handwritten:)* ← mandatory response
      (C)   STRANDEDNESS: *(handwritten:)* ← mandatory response
    (D) ~~LENGTH~~ TOPOLOGY: *(handwritten:)* ← mandatory response

  (ii)   MOLECULE TYPE: *(handwritten arrow)*   DNA

~~(iii)   HYPOTHETICAL~~   : *(handwritten:)* delete, since no response

~~(iv)   ANTI-SENSE~~   :

(handwritten:) (Vi) ~~(v)~~   ORIGINAL SOURCE: —
      (A)   ORGANISM: *(arrow)*   : ARTIFICIAL
      (handwritten (C)) (B)   INDIVIDUAL/ISOLATE: :
      (handwritten (G)) (C)   CELL TYPE: : *(circled, handwritten:)* delete, if no responses

(handwritten:) (Vii) ~~(vi)~~   IMMEDIATE SOURCE: —
      (B)   CLONE   :
      (C)   OTHER   : SYNTHETIC *(handwritten:)* This is not a heading under (vii) IMMEDIATE SOURCE:

  (x)   PUBLICATION INFORMATION: —
      (A)   AUTHORS: *(arrow)*   : Aranzana et al.
      (B)   TITLE: *(arrow)*   : Development and Variability
                            Analysis *(handwritten:)* → move up
                            Of Microsatellite Markers in
                            Peach
      (C)   JOURNAL: *(arrow)*   : Plant Breeding
      (D)   VOLUME: *(arrow)*   : 121
      (F)   PAGES: *(arrow)*   : 87-92
      (G)   DATE: *(arrow)*   : 2002
      (K)   RELEVANT RESIDUES: *(circled)*   : *(handwritten:)* delete, since no response is shown

(handwritten heading:) (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

(handwritten, bottom:) Per 1.822 of Sequence Rules, group all non-coding nucleotides into 10's, with one space between groups of 10. At the right margin of each line, indicate the cumulative nucleotide total.

(handwritten, bottom:) This page shown as a sample of global errors.

10/043,572 3

(15) INFORMATION FOR Pchgms1-B   : Sequence ID No. 14 ← last sequence in submitted file

Sequence 5' to 3'   : GGATCATTGAACTACGTCAATCCTC

(i)   SEQUENCE CHARACTERISTICS   :
       (A)   LENGTH   : 25
       (B) , TYPE   :
       (C)   STRANDEDNESS   :
    (Q) LENGTH   :

(ii)   MOLECULE TYPE   : DNA

(iii) HYPOTHETICAL   :

(iv)   ANTI-SENSE   :

(v)   ORIGINAL SOURCE   :
       (A)   ORGANISM   : ARTIFICIAL
       (B)   INDIVIDUAL/ISOLATE   :
       (C)   CELL TYPE   :

(vi)   IMMEDIATE SOURCE   :
       (B)   CLONE   :
       (C)   OTHER   : SYNTHETIC

(x)   PUBLICATION INFORMATION   :
       (A)   AUTHORS   : Sosinski et al.
       (B)   TITLE   : Characterization of
                                          Microsatellite Markers
                                       : In Peach [Prunus persica (L.)
                                          Batsch]
       (C)   JOURNAL   : Theor. Appl. Genet.
       (D)   VOLUME   : 101
       (F)   PAGES   : 421-428
       (G)   DATE   : 2000
       (K)   RELEVANT RESIDUES   :

same format error as previous sequences in submitted file

The submitted sequence listing is in "old" Sequence Rules format.

(See sample Sequence Listing (attached) for valid format.) FYI: Per new Sequence Rules, all U.S. sequence listing applications filed on or after July 1, 1998, and which do not have a prior related application filed before July 1, 1998, must have a sequence listing in new Sequence Rules format.

(3) Computer: Apple Macintosh;
(i) Operating System: Macintosh;
(ii) Macintosh File Type: text with line termination
(iii) Line Terminator: Pre-defined by text type file;
(iv) Pagination: Pre-defined by text type file;
(v) End-of-file: Pre-defined by text type file;
(vi) Media: (A) Diskett—3.50 inch, 400 Kb storage;
(B) Diskette—3.50 inch, 800 Kb storage;
(C) Diskette—3.50 inch, 1.4 Mb storage;
(vii) Print Command: Use PRINT command from any Macintosh Application that processes text files, such as MacWrite or Teach Text;
(4) Magnetic tape: 0.5 inch, up to 2400 feet;
(i) Density: 1600 or 6250 bits per inch, 9 track;
(ii) Format: raw, unblocked;
(iii) Line Terminator: ASCII Carriage Return plus optional ASCII Line Feed;
(iv) Pagination: ASCII Form Feed or Series of Line Terminators;
(v) Print Command (Unix shell version given here as sample response—mt/dev/rmt0: lpr/dev/rmt0);

(g) Computer readable forms that are submitted to the Office will not be returned to the applicant.

(h) All computer readable forms shall have a label permanently affixed thereto on which has been hand printed or typed, a description of the format of the computer readable form as well as the name of the applicant, the title of the invention, the date on which the data were recorded on the computer readable form and the name and type of computer and operating system which generated the files on the computer readable form. If all of this information cannot be printed on a label affixed to the computer readable form, by reason of size or otherwise, the label shall include the name of the applicant and the title of the invention and a reference number, and the additional information may be provided on a container for the computer readable form with the name of the applicant, the title of the invention, the reference number and the additional information affixed to the container. If the computer readable form is submitted after the date of filing

under 35 U.S.C. 111, after the date of entry in the national stage under 35 U.S.C. 371 or after the time of filing. In the United States Receiving Office, an International application under the PCT, the labels mentioned herein must also include the date of the application and the application number, including series code and serial number.

§ 1.825 Amendments to or replacement of sequence listing and computer readable copy thereof.

(a) Any amendment to the paper copy of the "Sequence Listing" (§ 1.821(c)) must be made by the submission of substitute sheets. Amendments must be accompanied by a statement that indicates support for the amendment in the application, as filed, and a statement that the substitute sheets include no new matter. Such a statement must be a verified statement if made by a person not registered to practice before the Office.

(b) Any amendment to the paper copy of the "Sequence Listing," in accordance with paragraph (a) of this section, must be accompanied by a substitute copy of the computer readable form (§ 1.821(e)) including all previously submitted data with the amendment incorporated therein, accompanied by a statement that the copy in computer readable form is the same as the substitute copy of the "Sequence Listing." Such a statement must be a verified statement if made by a person not registered to practice before the Office.

(c) Any appropriate amendments to the "Sequence Listing" in a patent, e.g., by reason of reissue or certificate of correction, must comply with the requirements of paragraphs (a) and (b) of this section.

(d) If, upon receipt, the computer readable form is found to be damaged or unreadable, applicant must provide, within such time as set by the Commissioner, a substitute copy of the data in computer readable form accompanied by a statement that the substitute data is identical to that originally filed. Such a statement must be a verified statement if made by a person not registered to practice before the Office.

Appendix A—Sample Sequence Listing
(1) GENERAL INFORMATION:

(I) APPLICANT: Doe, Joan X, Doe, John Q
(II) TITLE OF INVENTION: Isolation and Characterization of a Gene Encoding a Protease from Paramecium sp.
(III) NUMBER OF SEQUENCES: 2
(IV) CORRESPONDENCE ADDRESS:
   (A) ADDRESSEE: Smith and Jones
   (B) STREET: 123 Main Street
   (C) CITY: Smalltown
   (D) STATE: Anystate
   (E) COUNTRY: USA
   (F) ZIP: 12345
(V) COMPUTER READABLE FORM:
   (A) MEDIUM TYPE: Diskette, 3.50 inch, 800 Kb storage
   (B) COMPUTER: Apple Macintosh
   (C) OPERATING SYSTEM: Macintosh 5.0
   (D) SOFTWARE: MacWrite
(VI) CURRENT APPLICATION DATA:
   (A) APPLICATION NUMBER: 09/999,999
   (B) FILING DATE: 28-FEB-1989
   (C) CLASSIFICATION: 999/99
(VII) PRIOR APPLICATION DATA:
   (A) APPLICATION NUMBER: PCT/US88/99999
   (B) FILING DATE: 01-MAR-1988
(VIII) ATTORNEY/AGENT INFORMATION:
   (A) NAME: Smith, John A.
   (B) REGISTRATION NUMBER: 00001
   (C) REFERENCE/DOCKET NUMBER: 01-0001
(IX) TELECOMMUNICATION INFORMATION:
   (A) TELEPHONE: (999) 999-0001
   (B) TELEFAX: (999) 999-0002
(2) INFORMATION FOR SEQ ID NO: 1
(I) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 954 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: single
   (D) TOPOLOGY: linear
(II) MOLECULE TYPE: genomic DNA
(III) HYPOTHETICAL: yes
(IV) ANTI-SENSE: no
(VI) ORIGINAL SOURCE:
   (A) ORGANISM: Paramecium sp
   (C) INDIVIDUAL/ISOLATE: XYZ2
   (G) CELL TYPE: unicellular organism
(VII) IMMEDIATE SOURCE:
   (A) LIBRARY: genomic
   (B) CLONE: Para-XYZ2/38
(X) PUBLICATION INFORMATION:
   (A) AUTHORS: Doe, Joan X, Doe, John Q
   (B) TITLE: Isolation and Characterization of a Gene Encoding a Protease from Paramecium sp.
   (C) JOURNAL: Fictional Genes
   (D) VOLUME: 1
   (E) ISSUE: 1
   (F) PAGES: 1-20
   (G) DATE: 02-MAR-1988
   (K) RELEVANT RESIDUES IN SEQ ID NO 1: FROM 1 TO 954

BILLING CODE 3510-16-M

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:
  (A) LENGTH: 82 amino acids
  (B) TYPE: amino acid
  (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(ix) FEATURE:
  (A) NAME/KEY: signal sequence
  (B) LOCATION: -34 to -1

  (C) IDENTIFICATION METHOD: similarity to other signal sequences, hydrophobic

  (D) OTHER INFORMATION: expresses protease

(x) PUBLICATION INFORMATION:
  (A) AUTHORS: Doe, Joan X. Doe, John Q

  (B) TITLE: Isolation and Characterization of a Gene Encoding a Protease from Paramecium sp.

  (C) JOURNAL: Fictional Genes
  (D) VOLUME: 1
  (E) ISSUE: 1
  (F) PAGES: 1-20
  (G) DATE: 03-MAR-1988

  (K) RELEVANT RESIDUES IN SEQ ID NO: 2: FROM -34 TO 48

Here's where sequence 2 starts (after the sequence data of SEQ ID NO:1:)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

```
ATCGGGATAG TACTGGTCAA GACCGGTGGA CACCGGTTAA CCCCGGTTAA GTACGGGTTA    60

TAGGCCATTT CAGGCCAAAT GTGCCCAACT ACGCCAATTG TTTTGCCAAC GGCCAACGTT   120

ACGTTCGTAC GCACGTATGT ACCTAGGTAC TTACGGACGT GACTACGGAC ACTTCCGTAC   180

GTACGTACGT TTACGTACCC ATCCCAACGT AACCACAGTG TGGTCGCAGT GTCCCAGTGT   240

ACACAGACTG CCAGACATTC TTCACAGACA CCCC ATG ACA CCA CCT GAA CGT CTC   295
                                    Met Thr Pro Pro Glu Arg Leu
                                                            -30

TTC CTC CCA AGG GTG TGT GGC ACC ACC CTA CAC CTC CTC CTT CTG GGG    343
Phe Leu Pro Arg Val Cys Gly Thr Thr Leu His Leu Leu Leu Leu Gly
        -25                     -20                 -15

CTG CTG CTG GTT CTG CTG CCT GGG GCC CAT GTGAGGCAGC AGGAGAATGG       393
Leu Leu Leu Val Leu Leu Pro Gly Ala His
        -10                  -5

GGTGGCTCAG CCAAACCTTG AGCCCTAGAG CCCCCCTCAA CTCTGTTCTC CTAG GGG     450
                                                              Gly

CTC ATG CAT CTT GCC CAC AGC AAC CTC AAA CGT GCT GCT CAC CTC ATT    498
Leu Met His Leu Ala His Ser Asn Leu Lys Pro Ala Ala His Leu Ile
1               5                   10                  15

GTAAACATCC ACCTGACCTC CCAGACATGT CCCCACCAGC TCTCCTCCTA CCCCTGCCTC   558

AGGAACCCAA GCATCCACCC CTCTCCCCCA ACTTCCCCCA CGCTAAAAAA AACAGAGGGA   618

GCCCACTCCT ATGCCTCCCC CTGCCATCCC CCAGGAACTC AGTTGTTCAG TGCCCACTTC   678

TAC CCC AGC AAG CAG AAC TCA CTG CTC TGG AGA GCA AAC ACG GAC CGT    726
Tyr Pro Ser Lys Gln Asn Ser Leu Leu Trp Arg Ala Asn Thr Asp Arg
            20                  25                  30

GCC TTC CTC CAG GAT GGT TTC TCC TTG AGC AAC AAT TCT CTC CTG GTC    774
Ala Phe Leu Gln Asp Gly Phe Ser Leu Ser Asn Asn Ser Leu Leu Val
    35                  40                  45

TAGAAAAAAT AATTGATTTC AAGACCTTCT CCCCATTCTG CCTCCATTCT GACCATTTCA   834

GGGGTCGTCA CCACCTCTCC TTTGGCCATT CCAACAGCTC AAGTCTTCCC TGATCAAGTC   894

ACCGGAGCTT TCAAAGAAGG AATTCTAGGC ATCCCAGGGG ACCCACACCT CCCTGAACCA   954
```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

```
Met Thr Pro Pro Glu Arg Leu Phe Leu Pro Arg Val Cys Gly Thr Thr
              -30              -25              -20

Leu His Leu Leu Leu Leu Gly Leu Leu Leu Val Leu Leu Pro Gly Ala
         -15              -10              "       -5

His Gly Leu Met His Leu Ala His Ser Asn Leu Lys Pro Ala Ala His
         1            5                    10

Leu Ile Tyr Pro Ser Lys Gln Asn Ser Leu Leu Trp Arg Ala Asn Thr
15              20                   25                30

Asp Arg Ala Phe Leu Gln Asp Gly Phe Ser Leu Ser Asn Asn Ser Leu
              35              40                   45

Leu Val
```

BILLING CODE 3510-16-C